

Project Name: Nyabing Kukerin land resources survey
Project Code: NYA **Site ID:** 0195 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Heather Percy	Locality:	
Date Desc.:	05/07/95	Elevation:	325 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6257725 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	602810 Datum: AGD84	Drainage:	Moderately well drained

Geology

ExposureType:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Mid-slope	Relief:	15 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	0 %	Aspect:	90 degrees

Surface Soil Condition Hardsetting, Hardsetting

Erosion (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Eutrophic Hypernatric Brown Sodosol	Principal Profile Form:	Dy3.11
ASC Confidence:	Great Soil Group:	N/A

All necessary analytical data are available.

Site Disturbance Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

A1	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Massive grade of structure; Moderately moist; Field pH 7.5 (Raupach); Clear change to -
B1	0.12 - 0.3 m	Brown (10YR4/3-Moist); , 0-0% ; Clay loam, sandy; Weak grade of structure; Rough-ped fabric; Moderately moist; Field pH 8.5 (Raupach); Abrupt change to -
B21	0.3 - 0.4 m	Brown (10YR4/3-Moist); Mottles, 10YR54, 10-20% , 15-30mm, Faint; Light medium clay; Strong grade of structure; Rough-ped fabric; Dry; Field pH 6.5 (Raupach); Clear change to -
B22	0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); Mottles, 2.5YR46, 10-20% , 15-30mm, Distinct; , 10YR82, 10-20% , 15-30mm, Distinct; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 6 (Raupach); Clear change to -
B3	0.5 - 0.7 m	Light yellowish brown (10YR6/4-Moist); Mottles, 5YR56, 10-20% , 15-30mm, Distinct; Substrate influence, 10YR81, 10-20% , 15-30mm, Distinct; Light medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Field pH 5.5 (Raupach);

Morphological Notes

B21	Kaolinitic clay
B22	Kaolinitic clay
B3	Kaolinitic clay - some weathered rock.

Observation Notes

Site Notes

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Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.12	6.2B 7H	20B	10.02A	5.49	1.97	1.24			18.72D	
0 - 0.12	6.2B 7H	20B	10.02A	5.49	1.97	1.24			18.72D	
0 - 0.1	6.3B									
0.12 - 0.3	6.8B 7.9H	26B	3.8A	8.2	0.71	2.71			15.42D	
0.12 - 0.3	6.8B 7.9H	26B	3.8A	8.2	0.71	2.71			15.42D	
0.15 - 0.25	7B									
0.3 - 0.4	5.6B 6.4H	41B	1.05H	5.01	0.46	2.94	0.03J		9.46D	
0.3 - 0.4	5.6B 6.4H	41B	1.05H	5.01	0.46	2.94	0.03J		9.46D	
0.4 - 0.5	4.8B									

Depth m	CaCO3 %	Organic C Clay %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Particle GV	Size CS %	Analysis FS %	Silt
0 - 0.12 7.5		3.88D							80.5I		12
0 - 0.12 7.5		3.88D							80.5I		12
0 - 0.1											
0.12 - 0.3 31.5		1.58D							56.5I		12
0.12 - 0.3 31.5		1.58D							56.5I		12
0.15 - 0.25											
0.3 - 0.4 57		0.62D							35.5I		7.5
0.3 - 0.4 57		0.62D							35.5I		7.5
0.4 - 0.5											

Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
15A1_CEC	salts
15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_MG	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA	salts
for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL	salts
15E1_CA	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
salts	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases

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15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded